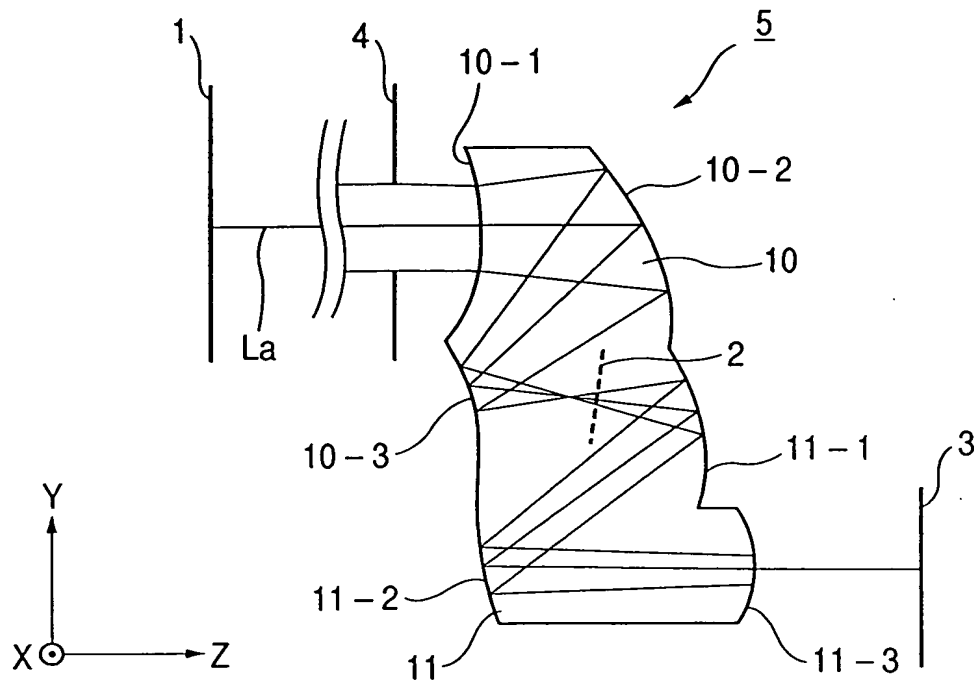
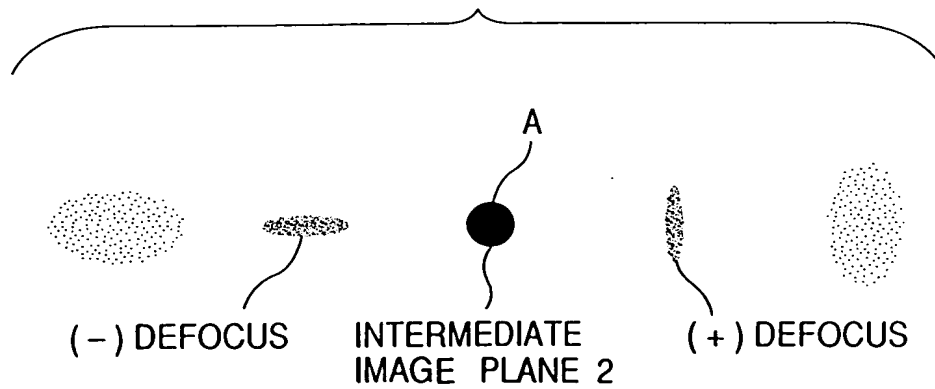


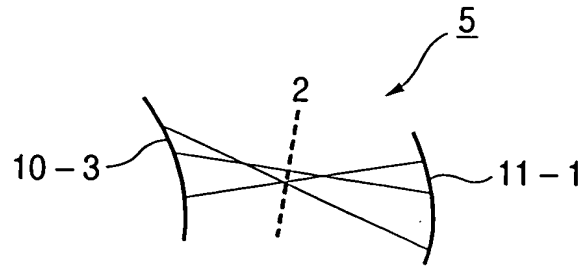
**FIG. 1A**



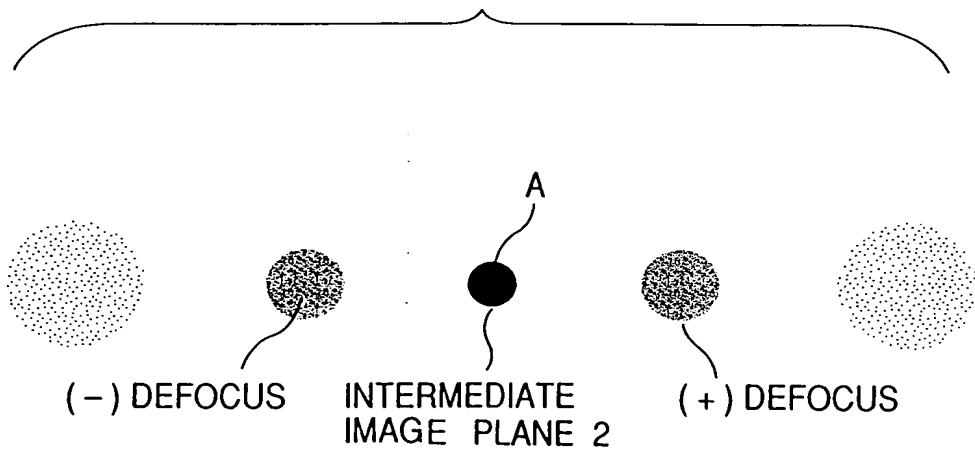
**FIG. 1B**



*FIG. 2A*

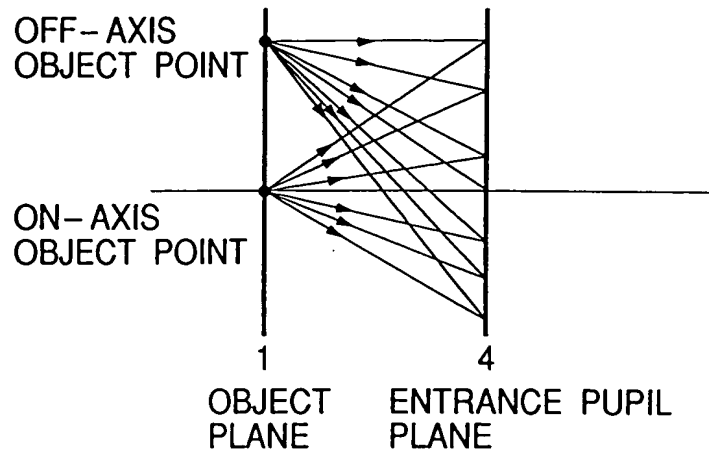


*FIG. 2B*



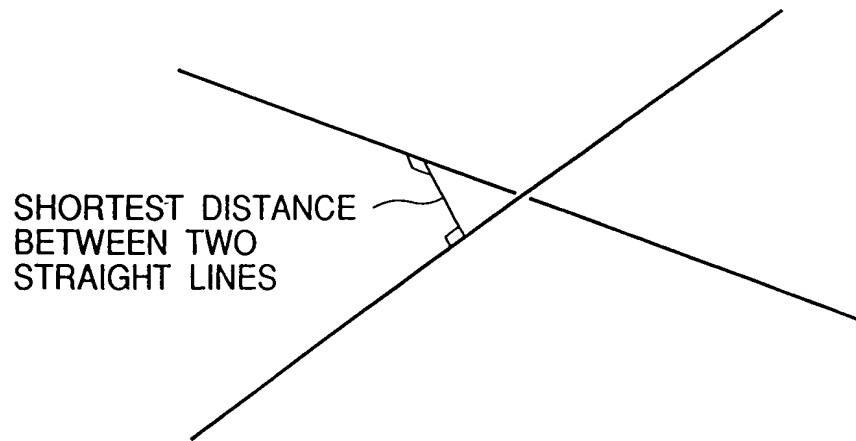
# FIG. 3A

( LIGHT BEAMS IN MERIDIAN SECTION )

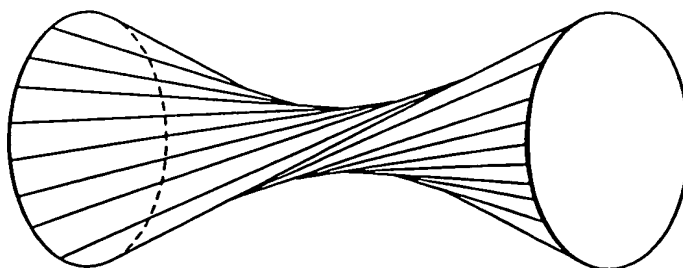


# FIG. 3B

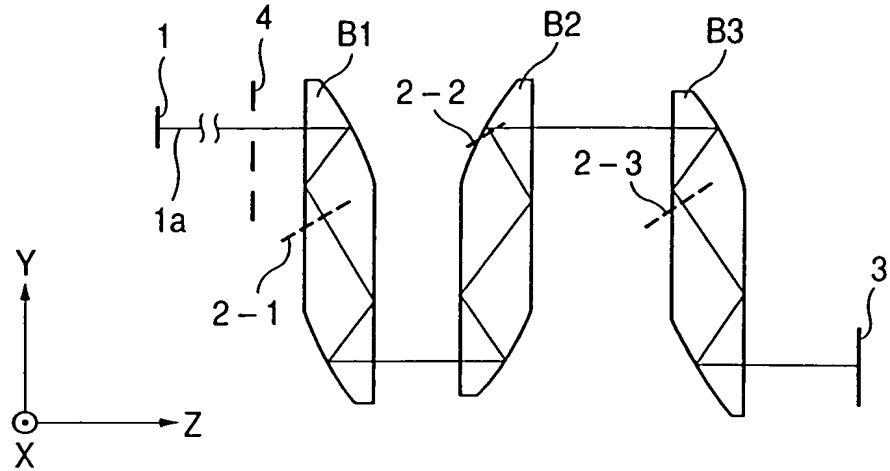
( RELATIONSHIP OF TORSION )



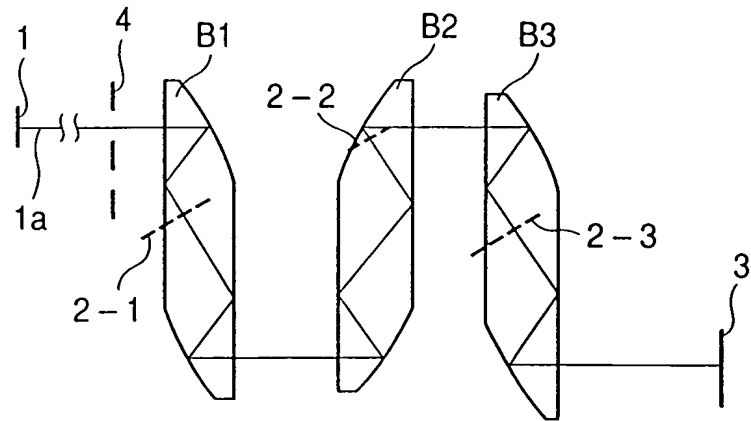
# FIG. 3C



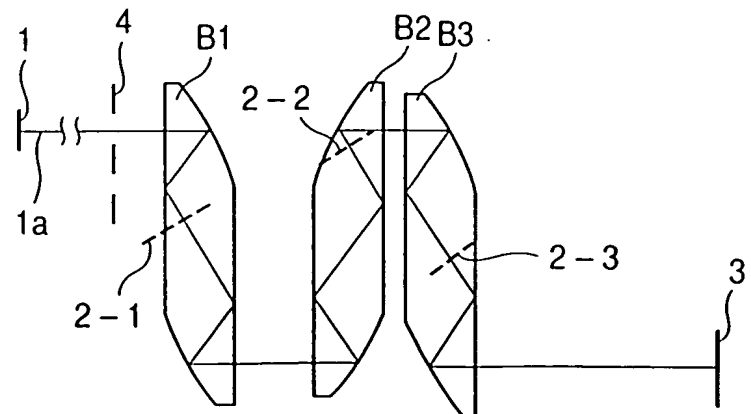
**FIG. 4A**  
WIDE ANGLE END



**FIG. 4B**  
INTERMEDIATE POSITION



**FIG. 4C**  
TELEPHOTO END



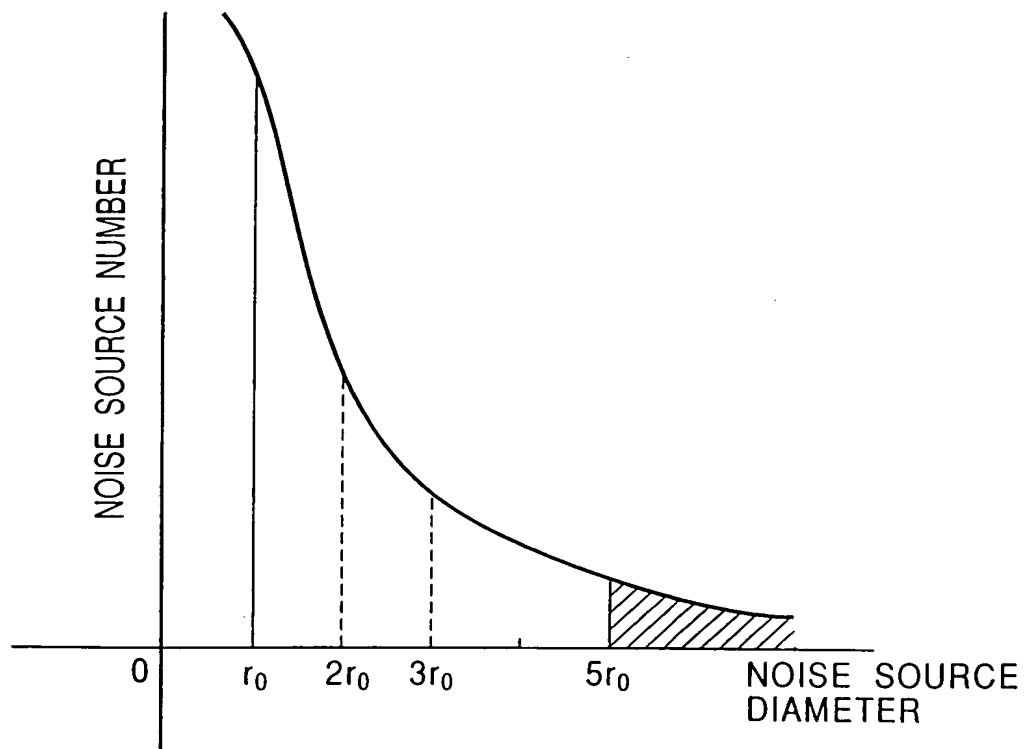
*FIG. 5*

FIG. 6A

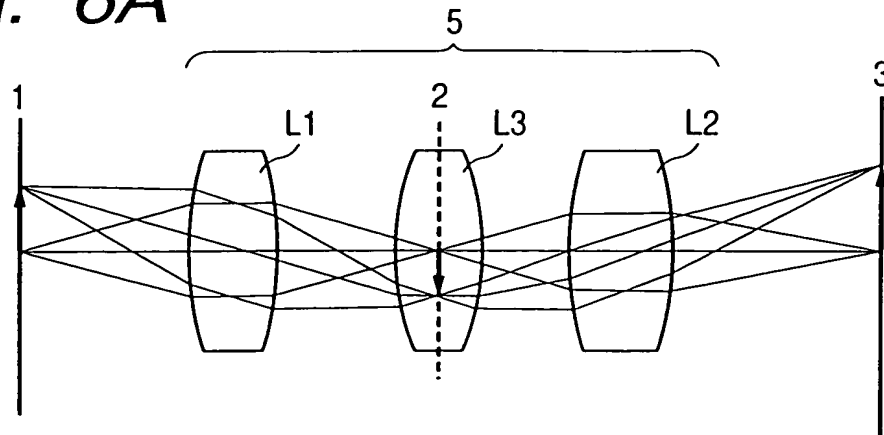


FIG. 6B

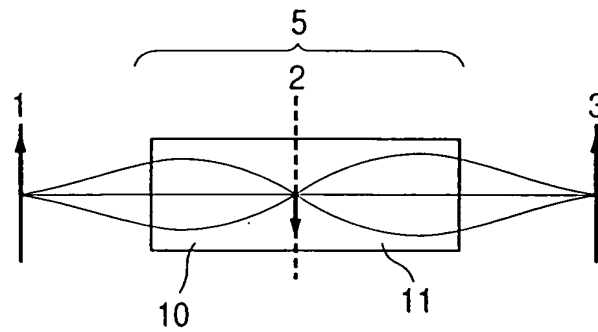
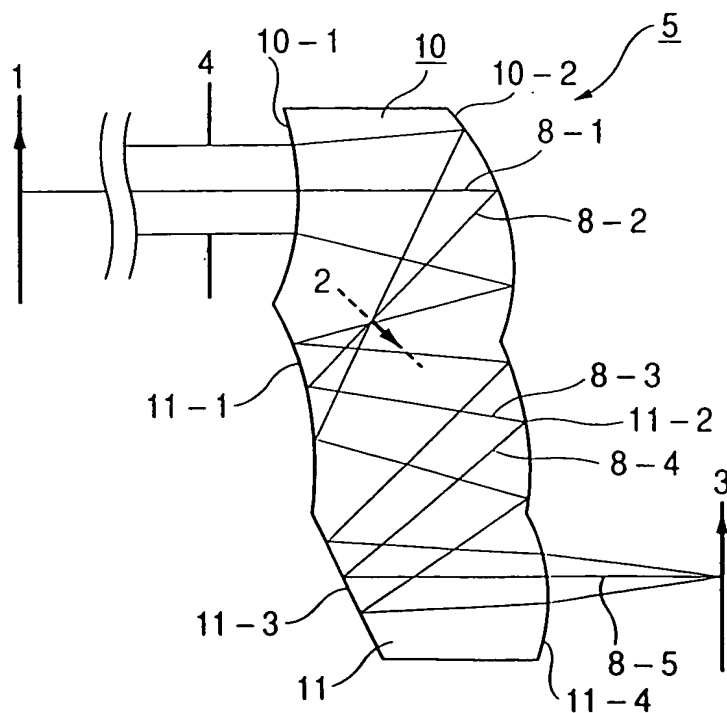
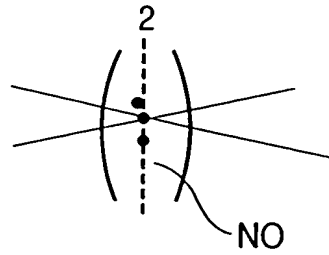


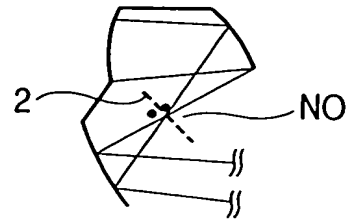
FIG. 6C



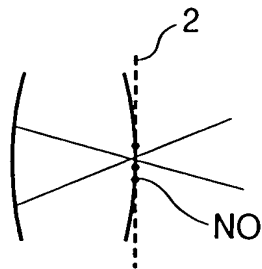
**FIG. 7A**



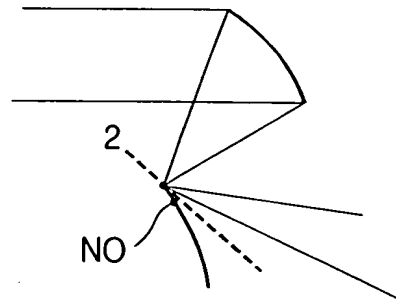
**FIG. 7B**



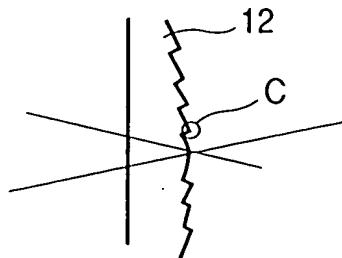
**FIG. 7C**

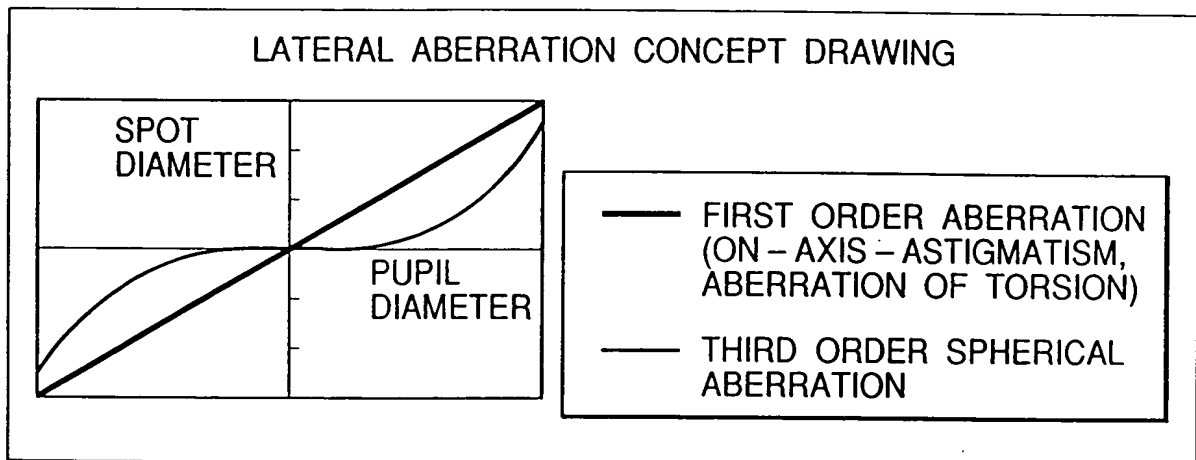


**FIG. 7D**

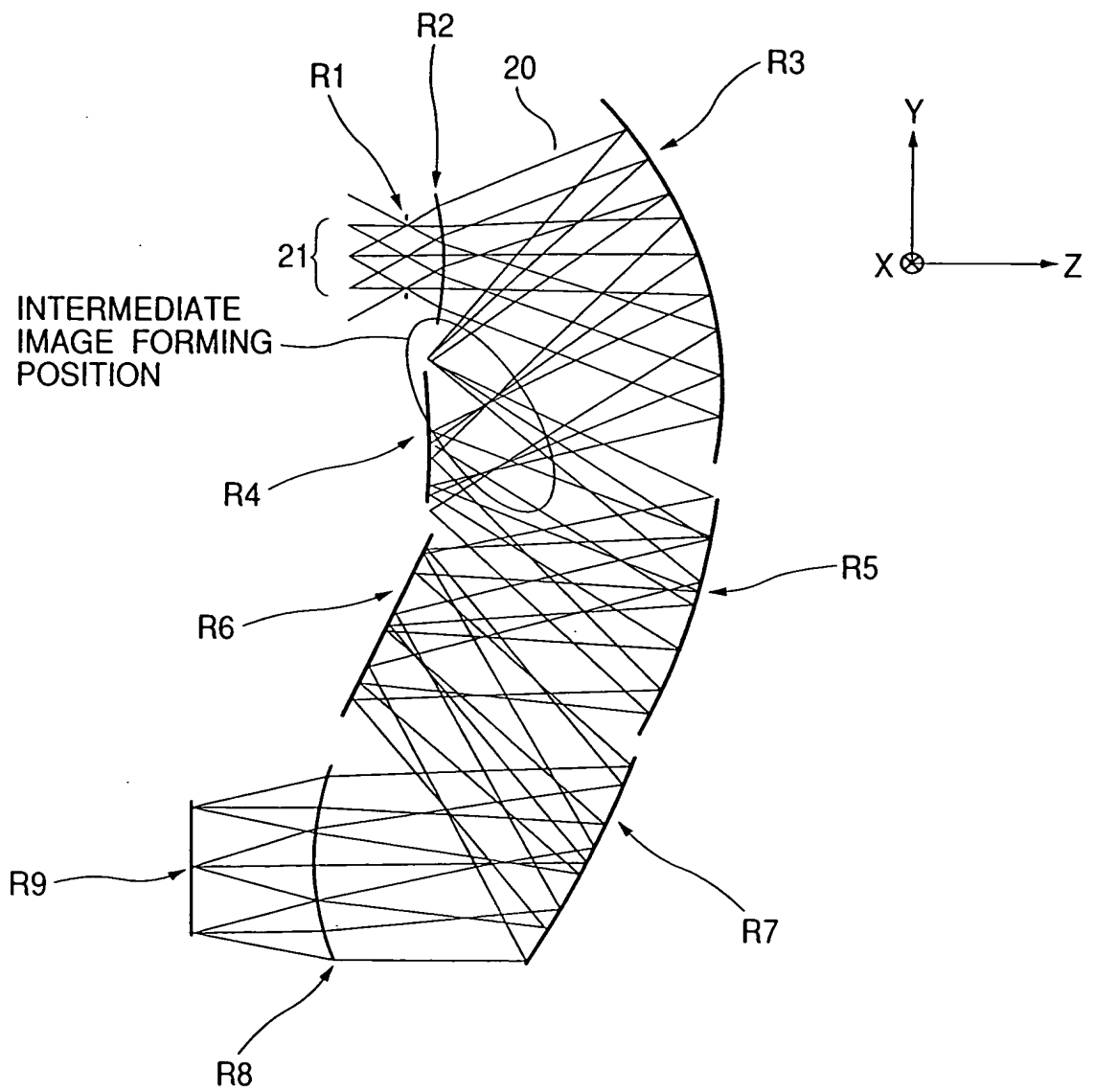


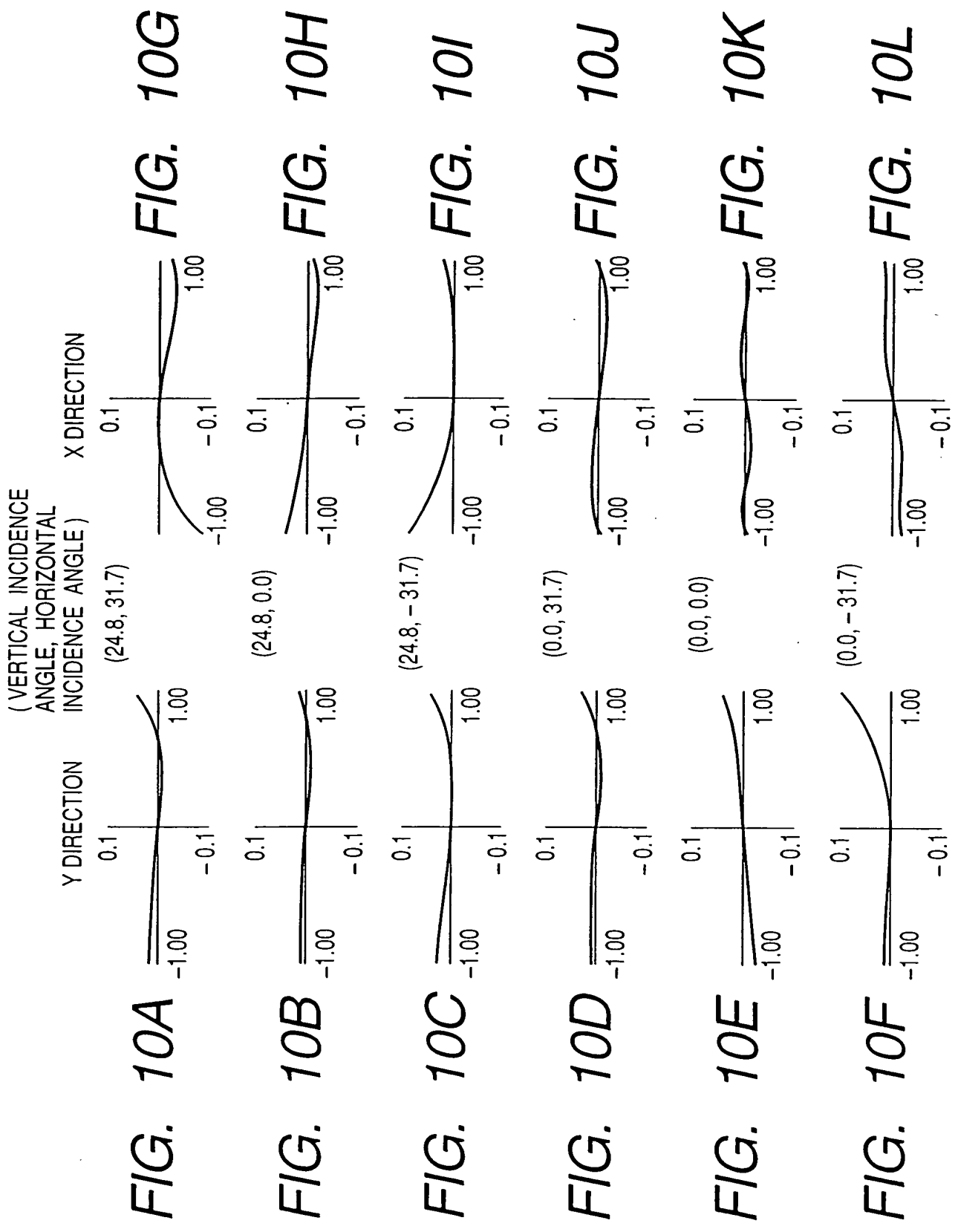
**FIG. 7E**

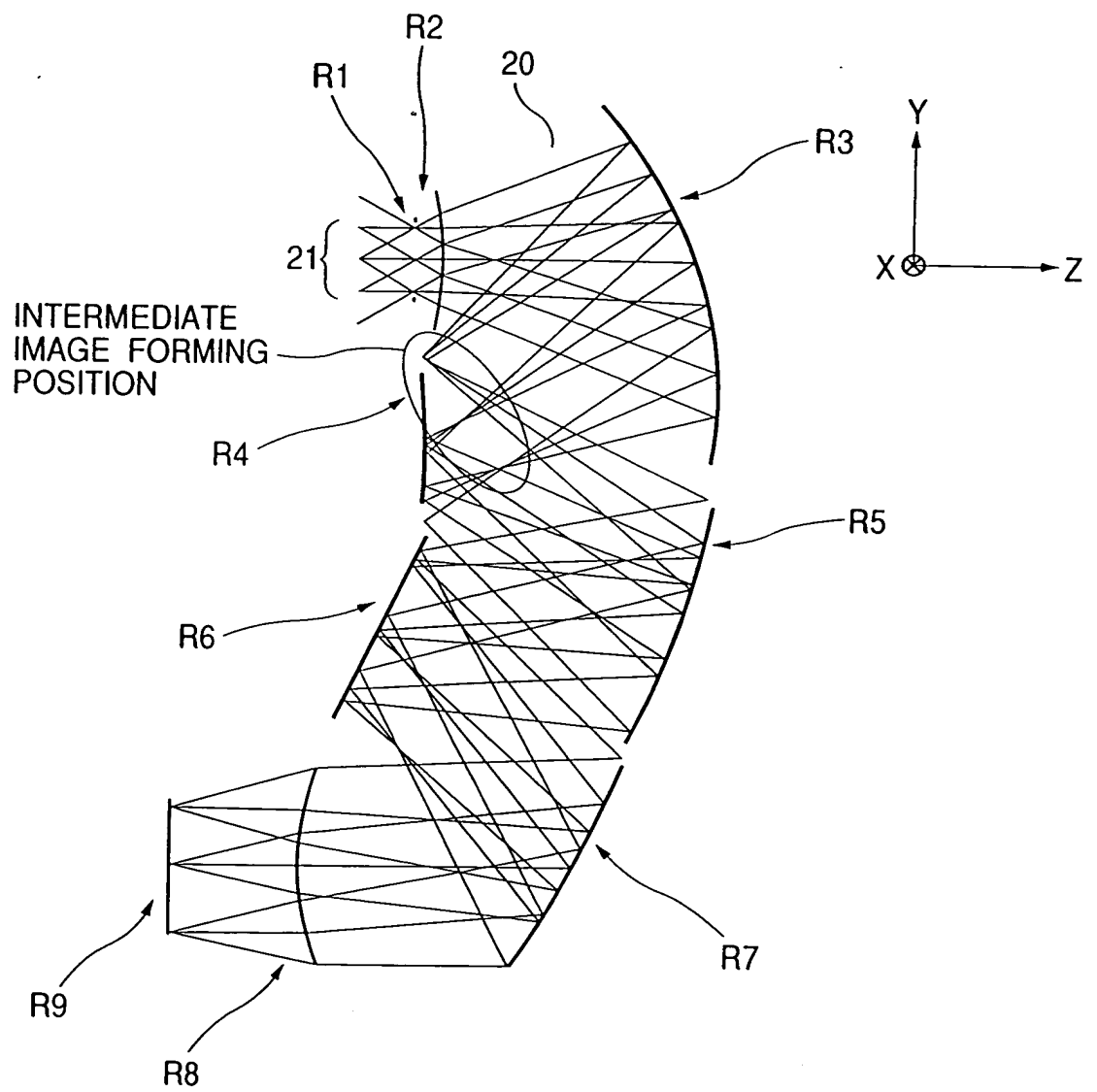


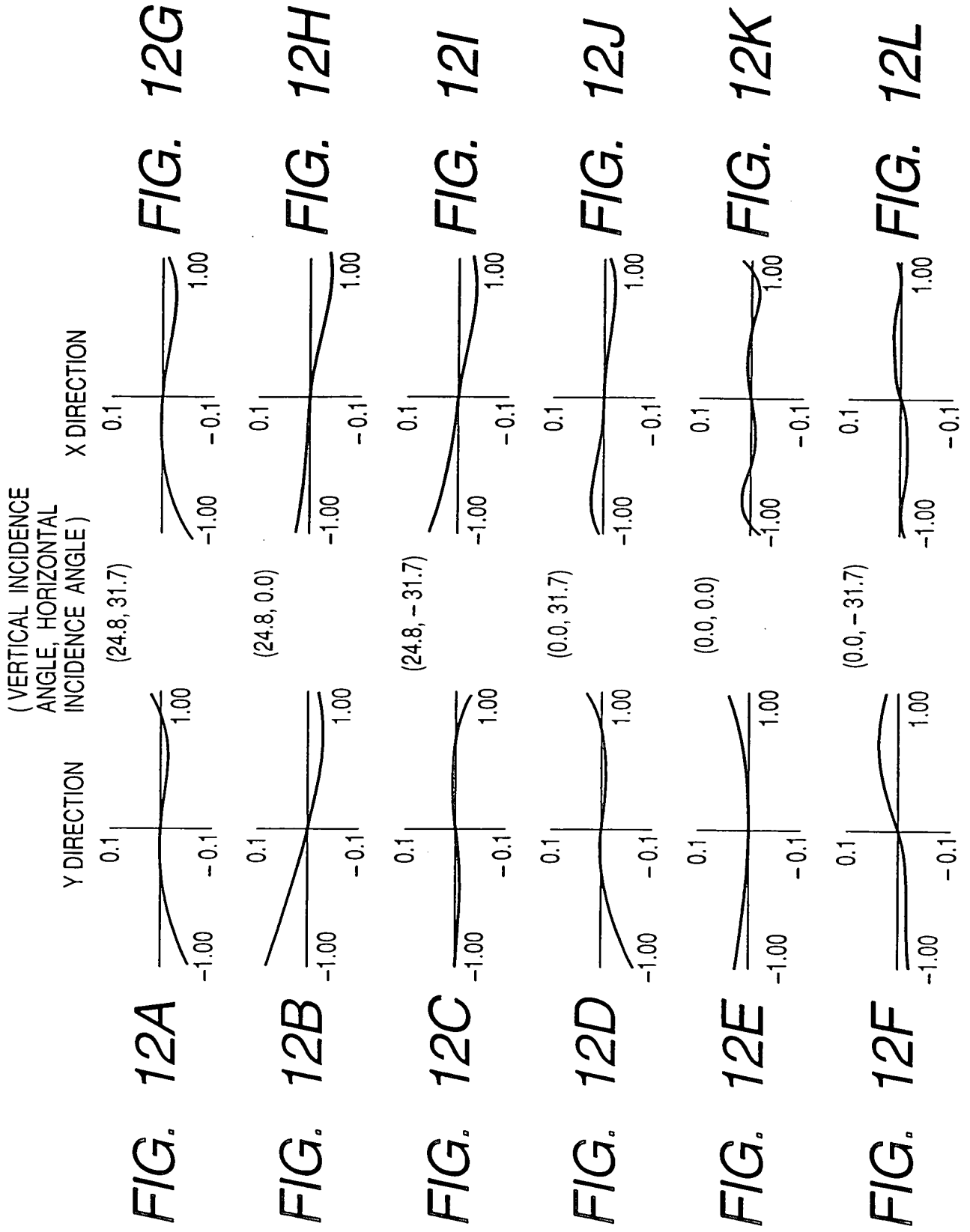
*FIG. 8*

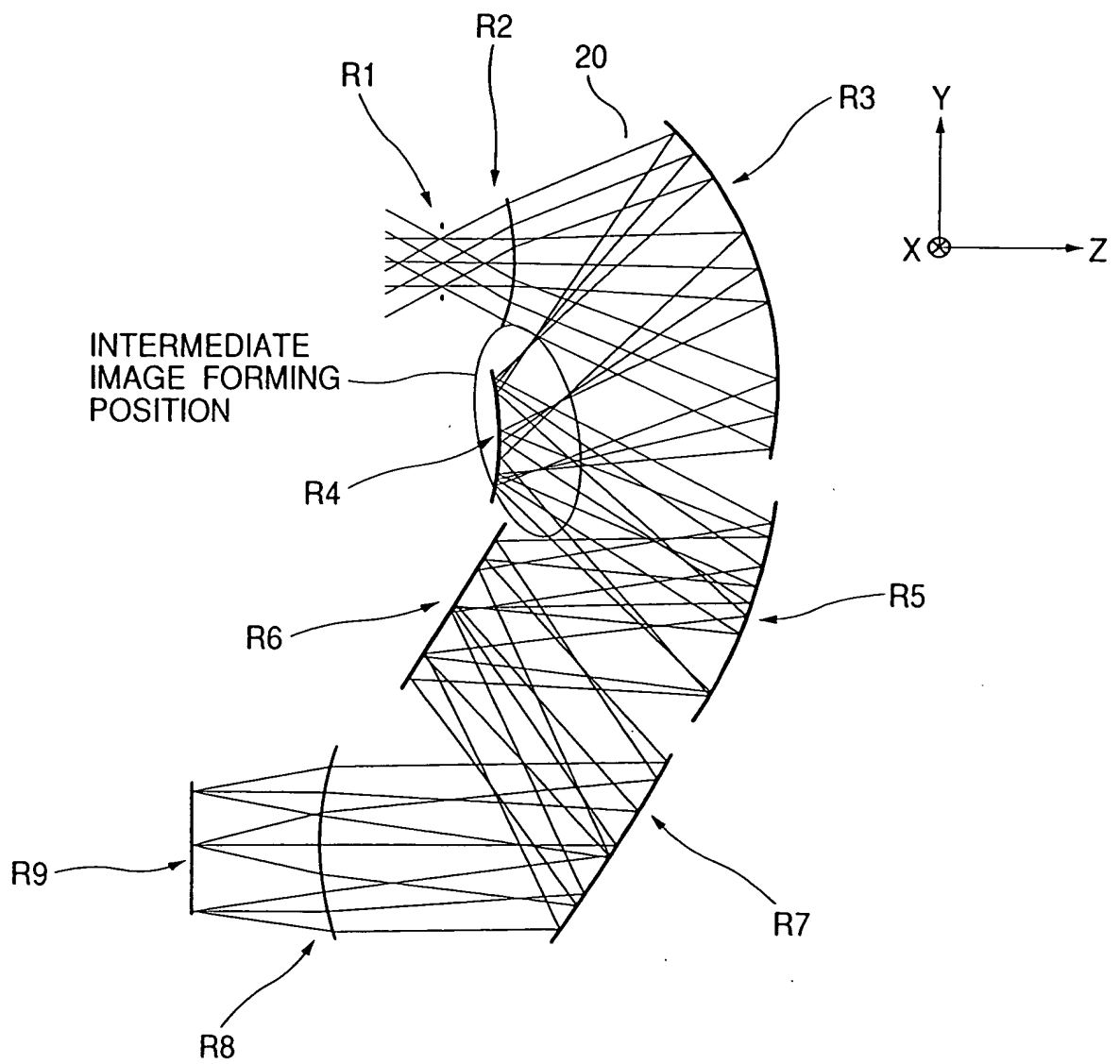


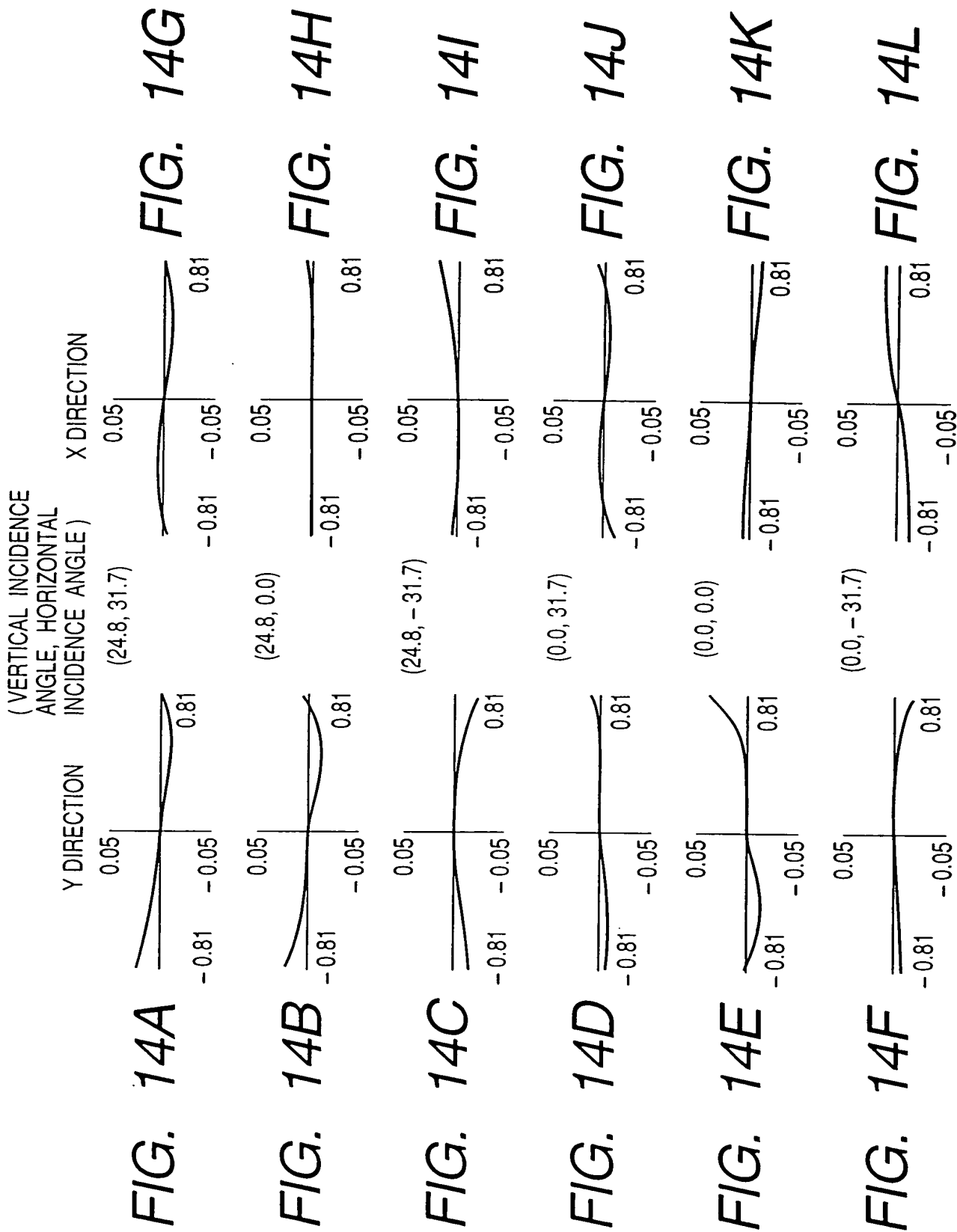
*FIG. 9*

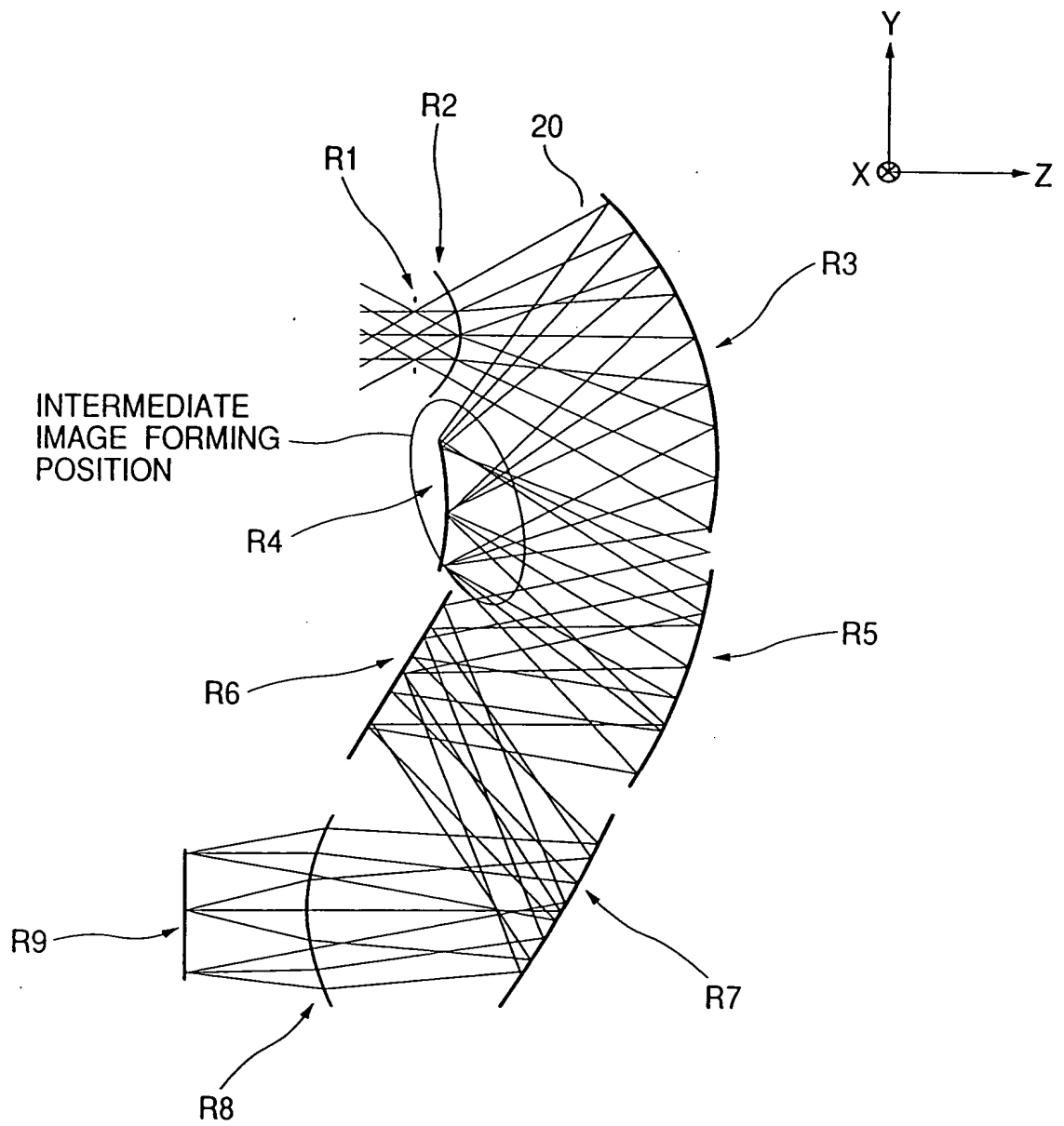


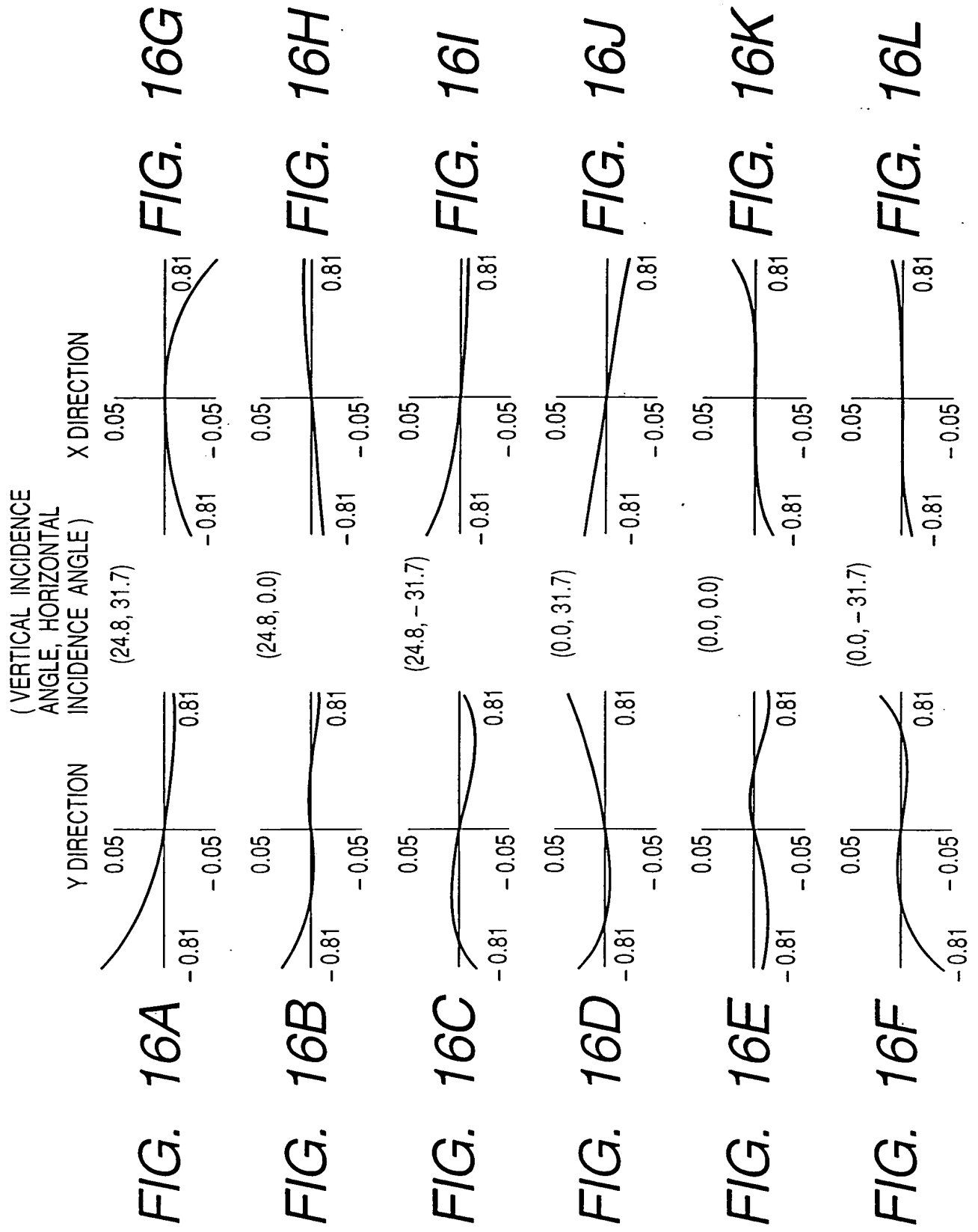
**FIG. 11**



*FIG. 13*

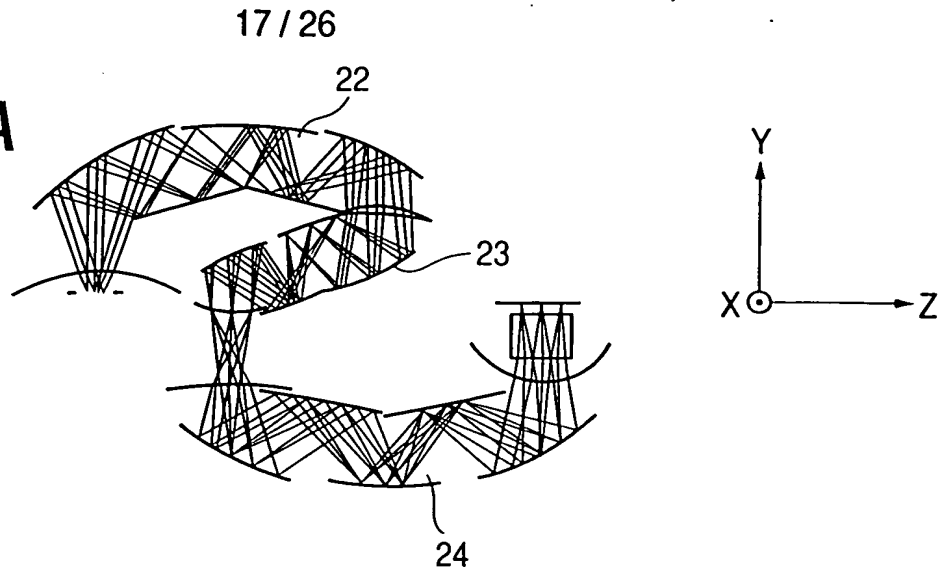


*FIG. 15*

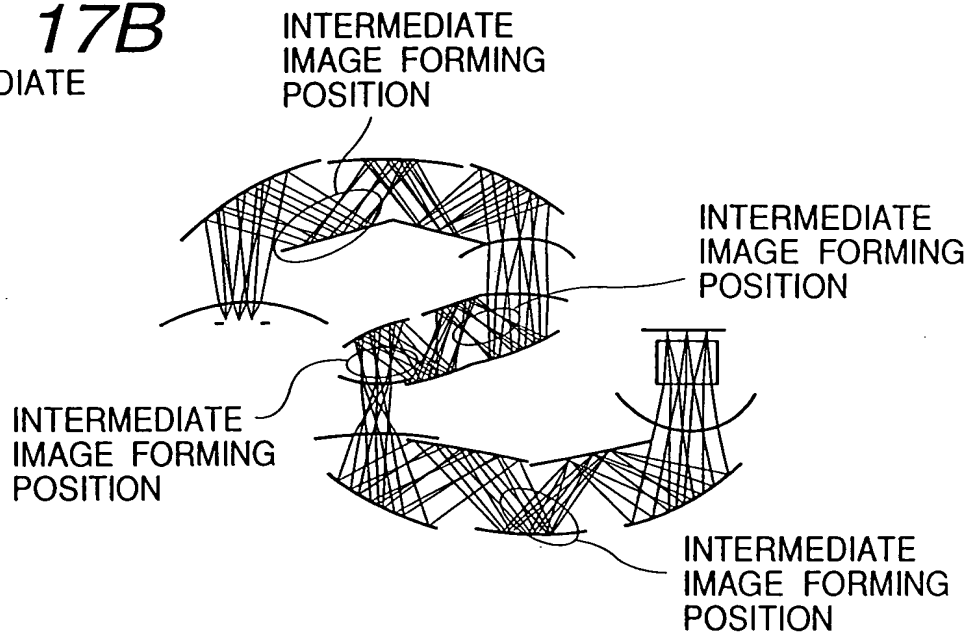




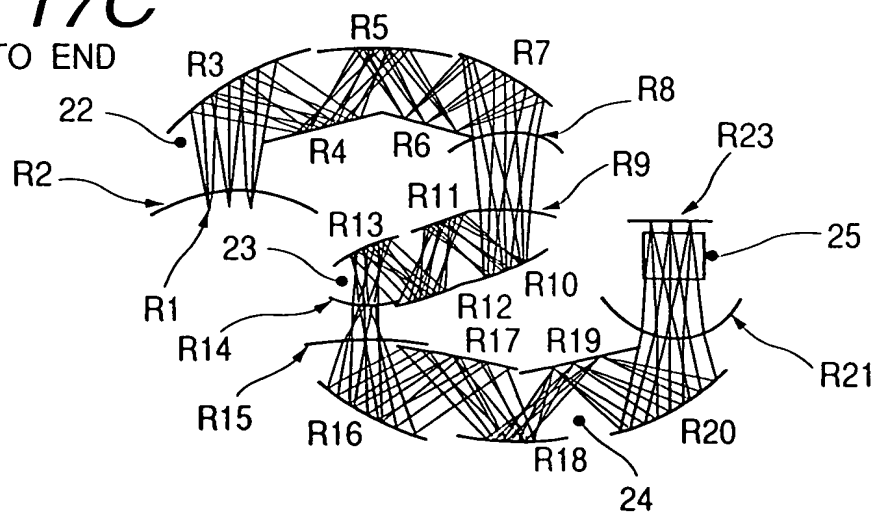
**FIG. 17A**  
WIDE ANGLE END

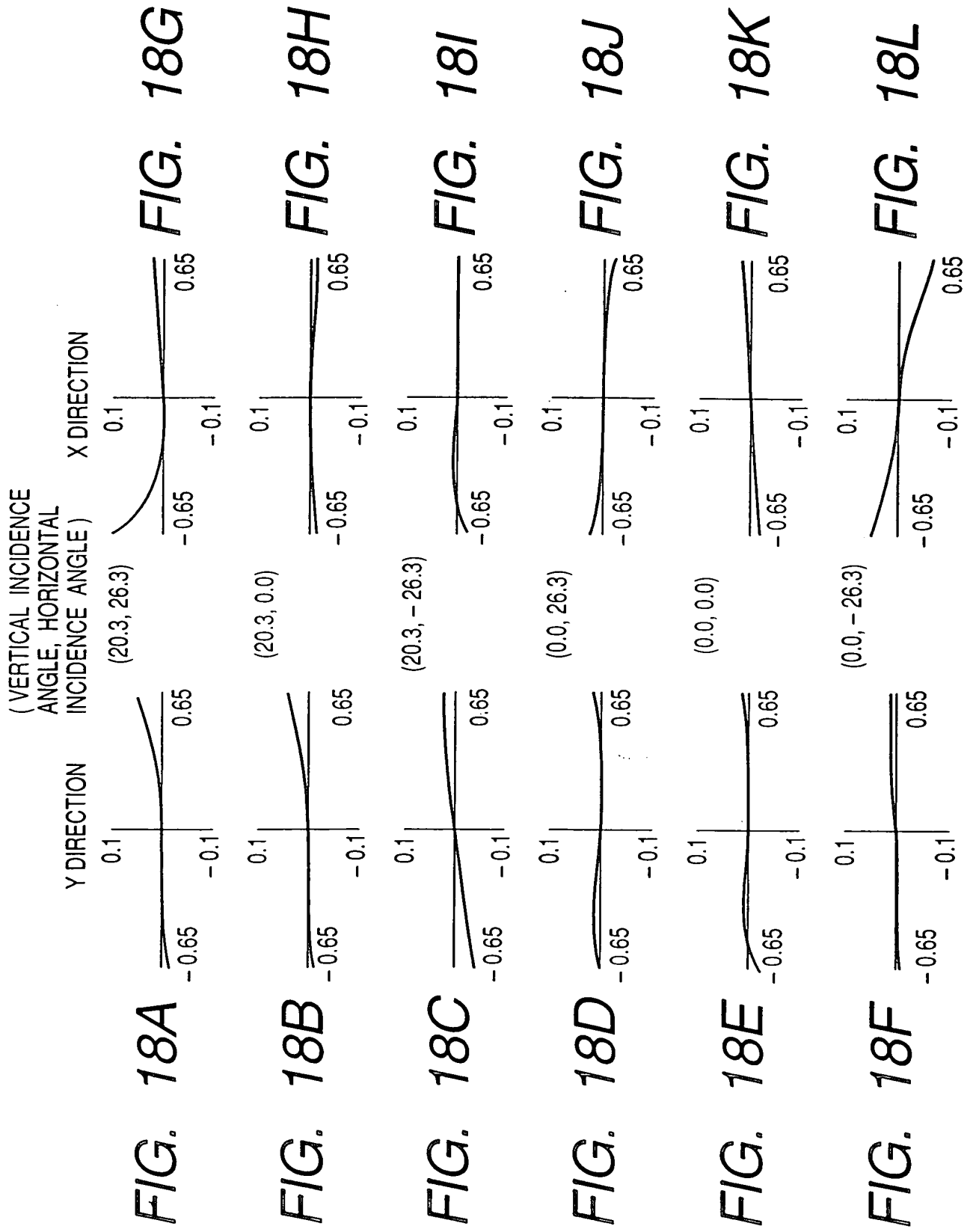


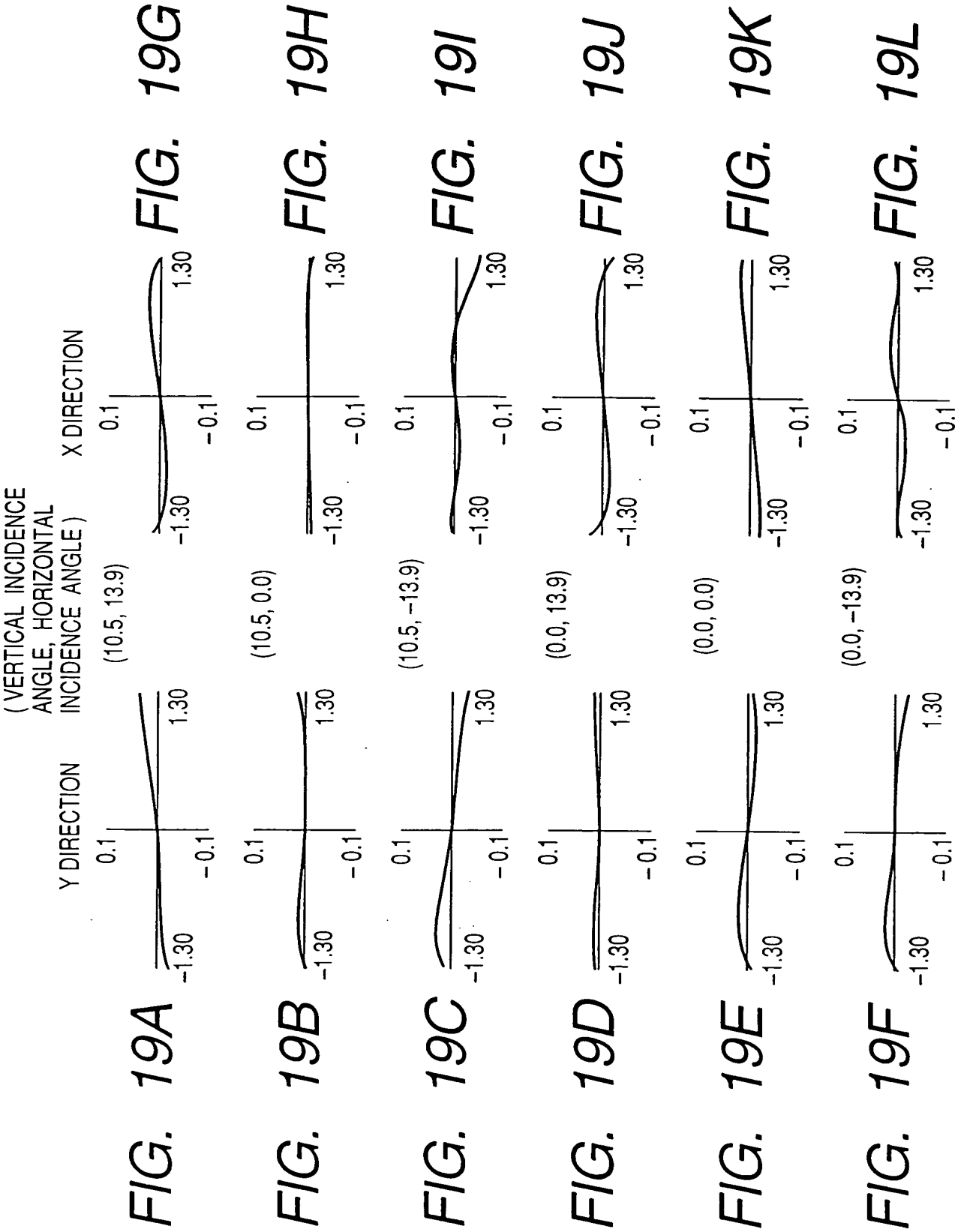
**FIG. 17B**  
INTERMEDIATE POSITION

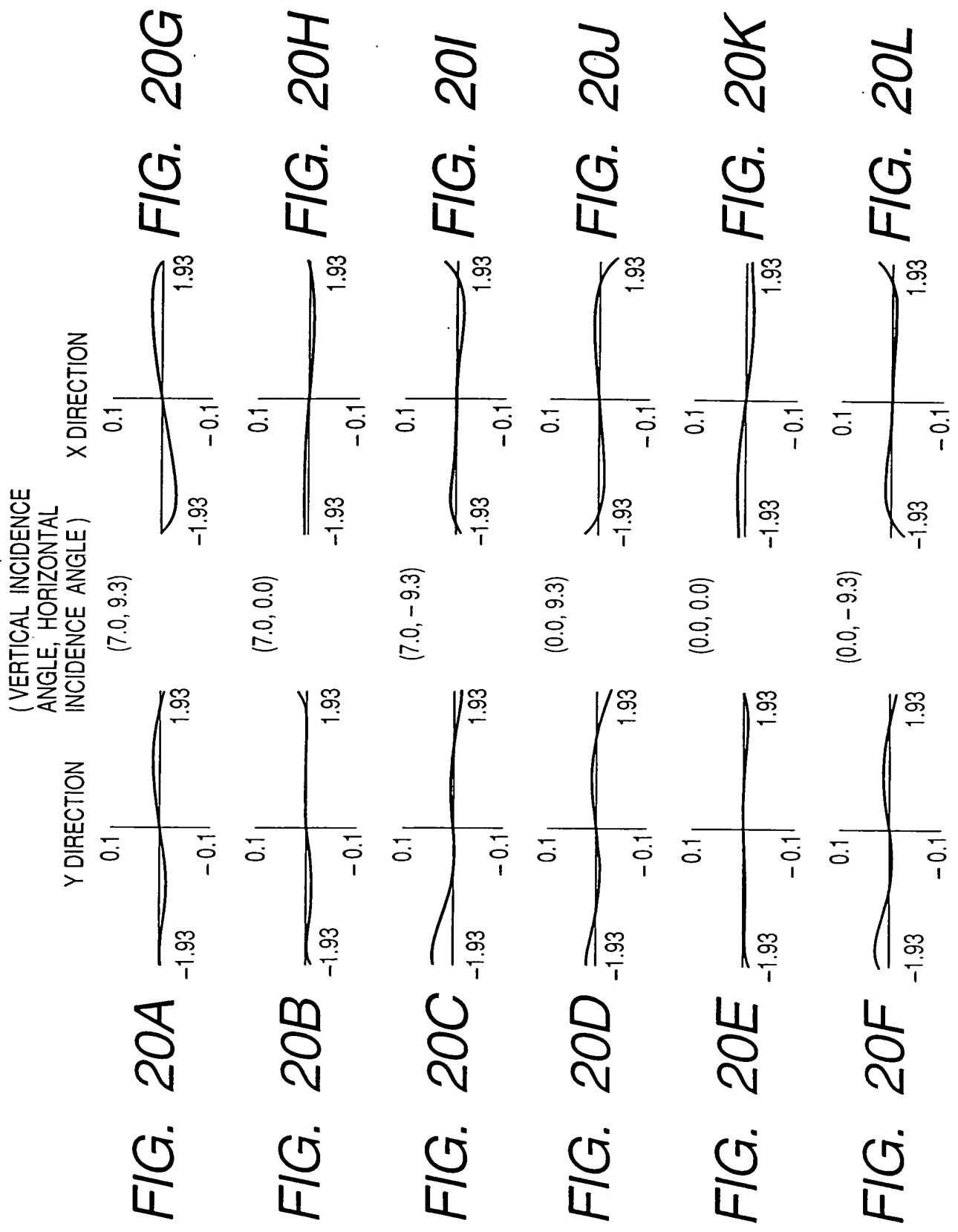


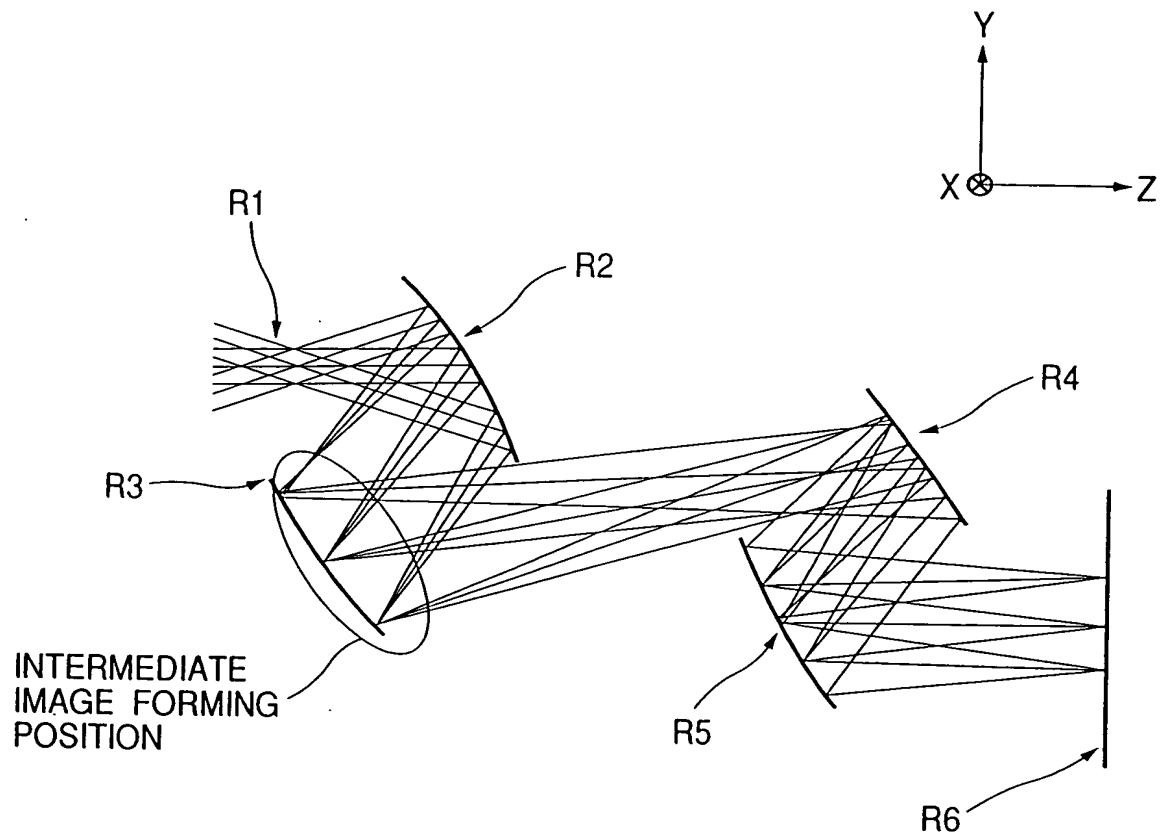
**FIG. 17C**  
TELEPHOTO END









*FIG. 21*

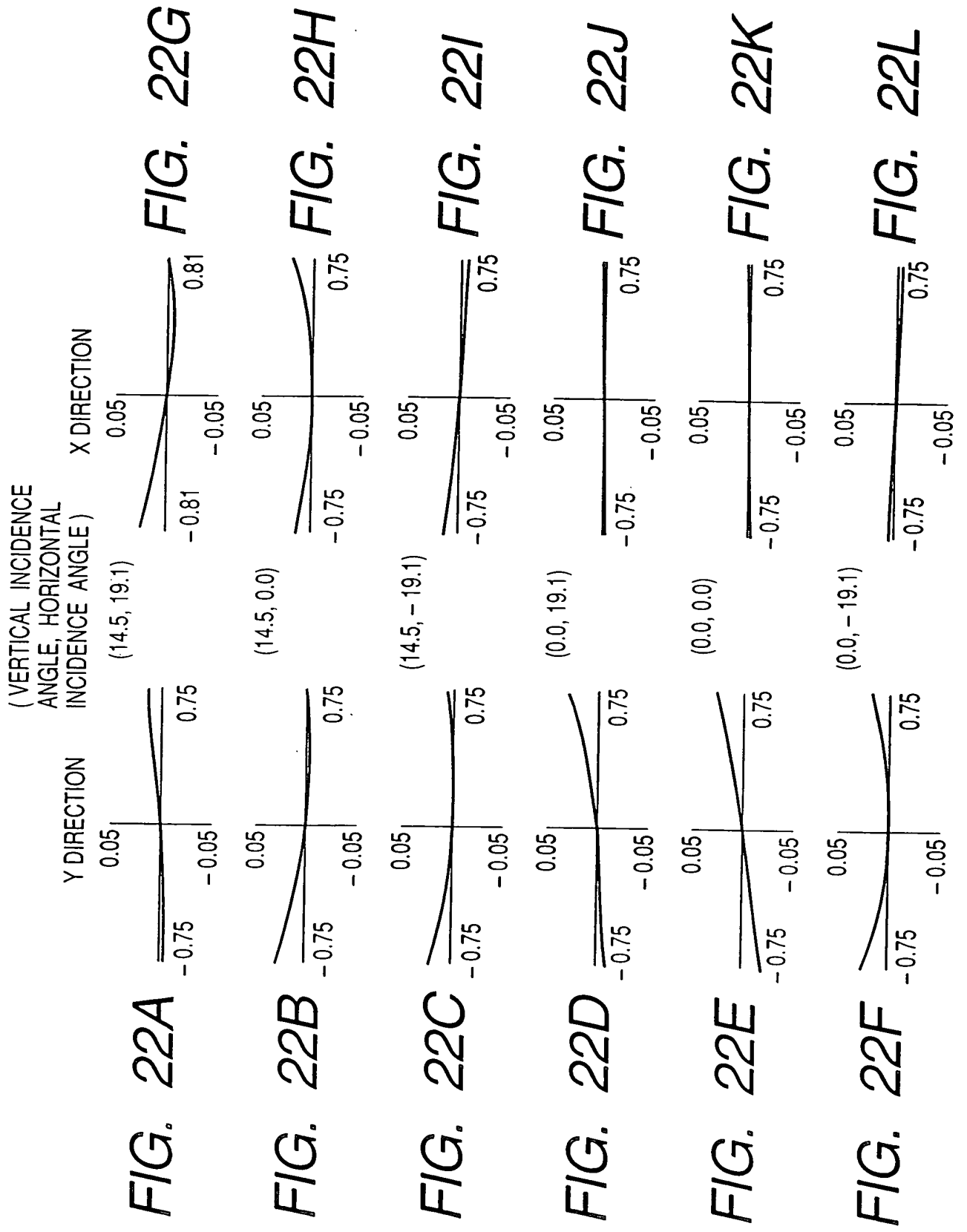
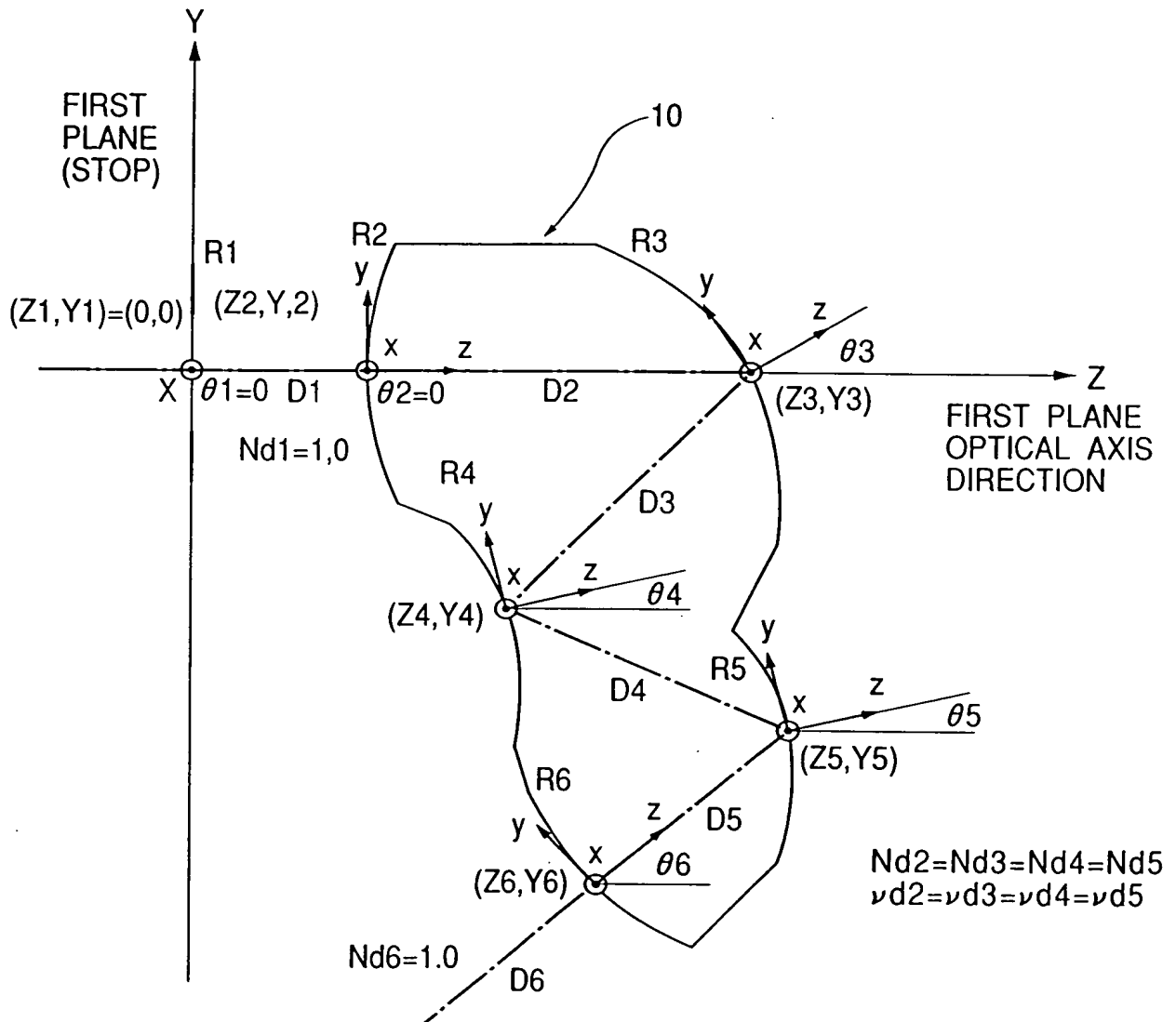


FIG. 23



*FIG. 24*

( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )



( 24.84, 31.68 )



0.50000 MM



*FIG. 25*

( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )



( 24.84, 31.68 )



0.50000 MM





